

## **PCT**

REC'D 0 9 JUN 2005

# INTERNATIONAL PRELIMINARY REPORT ON PATENTAB LITTLE

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR THE PARTY ACT		
1843 PCT	FOR FURTHER AC	TION	See Form PCT/IPEA/416
International application No.	International filing date (	day/month/year)	Priority date (day/month/year)
PCT/US03/40479 17 December 2003 (17.1)		2.2003)	17 December 2002 (17.12.2002)
International Patent Classification (IPC)	or national classification an	d IPC	
IPC(7): H04K 1/00 and US Cl.: 705/51	<del></del>		
Applicant			
DRISCOLL, WILLIAM J.			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.			
2. This REPORT consists of	a total of 6 sheets, inc	luding this cover she	et.
<ol><li>This report is also accomp</li></ol>	panied by ANNEXES, co	mprising:	
a. (sent to the applica	ant and to the Internation	al Bureau) a total of	sheets, as follows:
sheets of the	description, claims and	or drawings which h	nave been amended and are the basis
of this repor	t and/or sheets containi	ng rectifications aut	horized by this Authority (see Rule
	ection 607 of the Adminis	•	
amendment	that goes beyond the	leets, but which th disclosure in the in	nis Authority considers contain an attenuational application as filed, as
indicated in i	tem 4 of Box No. I and t	the Supplemental Box	K.
b. (sent to ti	he International Bureau	only) a total of (in	dicate type and number of electronic
carrier(s))			
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items:			
<b>▽</b>	_	wing items.	
	asis of the report		
	riority		-
	on-establishment of opini plicability	on with regard to no	velty, inventive step and industrial
Box No. IV La	ack of unity of invention		
Box No. V Re	asoned statement under Article 35(2) with regard to novelty, inventive step or lustrial applicability; citations and explanations supporting such statement		
	ertain documents cited		- Free and - Control - Con
Box No. VII Co	ertain defects in the inter	national application	
<del></del> 1		international application	
Date of submission of the demand		Date of completion of this report	
16 July 2004 (16.07.2004)		29 May 2006 (29 06 (	3005
Name and mailing address of the IPEA/ US		28 May 2005 (28.05.2	2003)
Mail Stop PCT, Attn: IPEA/US		Authorized officer	;
Commissioner for Patents P.O. Box 1450		Andrew Caldwell	
Alexandria, Virginia 22313-1450		Telephone No. 305-3	sonn .
Facsimile No. (703) 305-3230		2 cichimie 140. 303-3	

#### INTERNATIONAL PRELIMINA REPORT ON PATENTABILITY

International app n No.	
PCT/US03/40479	

Box No. I Basis of the report	FC170303/404/9
1. With regard to the language, this report is based on the international a filed, unless otherwise indicated under this item.	
This report is based on translations from the original language in which is the language of a translation furnished for the purposes of	to the following language,
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.4	)
international preliminary examination (under Rules 55.2 and	Vor 55.3)
2. With regard to the elements of the international application, this report is furnished to the receiving Office in response to an invitation under Article 14 and are not annexed to this report):	
the international application as originally filed/furnished	
the description:	
pages 1-16 as originally filed/furnished pages* NONE received by this Authority or	
pages* NONE received by this Authority on received by this Authority on	
the claims:	
pages 17-20 as originally filed/furnished	
pages* NONE as amended (together with any statement)	inder Article 19
received by this Authority on	
tootived by this Audionty on	
the drawings:  pages 1-4  as originally filed/formiched	
pages* NONE received by this Authority on pages* NONE received by this Authority on	
a sequence listing and/or any related table(a)	
a sequence listing and/or any related table(s) - see Supplemental Bo	ox Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:	
the description, pages NONE the claims, Nos NONE the drawings, sheets/figs NONE the sequence listing (specify): NONE any table(s) related to the sequence listing (specify)	
the claims, Nos. NONE	
the drawings, sheets/figs NONE	
the sequence listing (specify): NONE	
any table(s) related to the sequence listing (specify):_NONE	
This report has been established as if (some of) the amendments annexed to since they have been considered to go beyond the disclosure as filed, as independent of the control of the cont	
the description, pages	
the claims, Nos	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
If item 4 applies, some or all of those it	
If item 4 applies, some or all of those sheets may be marked "superseded." m PCT/IPEA/409 (Box No. I) (January 2004)	

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US03/40479

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement				
	No	ovelty (N)	Claims Claims	1-23 NONE	YES NO
	Inv	ventive Step (IS)	Claims Claims	NONE 1-23	_YES _ NO
	Ind	lustrial Applicability (IA)	Claims Claims		_YES _ NO
2.	Citations a	nd Explanations (Rule 70.7)			

2. Citations and Explanations (Rule 70.7) Please See Continuation Sheet

Form PCT/IPEA/409 (Box No. V) (January 2004)



International application No.

PCT/US03/40479

Box No. VII	Certain defects in the international application	
The following d	lefects in the form or contents of the international application have been noted:	
Claims 17-23 objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: There is no claim 16 listed.		
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n PCT/IDE A /AOO	(Box No. VII) (January 2004)	

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International app. ...ion No. PCT/US03/40479

Supp	lemental	Box
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In case the space in any of the preceding boxes is not sufficient.

Continuation of:

#### V. 2. Citations and Explanations:

1. Claims 1, 2, 5-13, 16-19 and 21 lack an inventive step under PCT Article 33(3) as being obvious over Grynberg et al. US 4,734,796 in view of Linnartz, US 6,314,518.

As for claims 1, 7, 8, 12, and 21, Grynberg teaches an optical media storage device of a selected format that is adapted to be read by and optical reader (abstract), comprising: (a) a substrate having a first surface and an opposite second surface (abstract, fig. 2), said first surface having a data structure formed thereon which includes: an anomaly region configured to generate one or more errors when read by the optical reader (col. 1 lines 43-67); a fingerprint region having associated informational pits and lands obtained when said anomaly region is applied (col. 2 lines 35-45) and an informational region corresponding to an authentication program (col. 3 lines 60-67). Linnartz teaches the features of the claim not taught by Grynberg, namely a storage media that is an optical media (abstract), and that said hashing algorithm is executed against said anomaly region to generate a test hash value (col. 9 lines 15-30). Linnartz does not explicitly teach a metallic reflective layer disposed over said data structure; and (c) a protective layer disposed over said metallic reflective layer, or a substrate that comprises polycarbonate and said protective layer is a polymeric film, however such are inherent to the system since these are features found on the optical media described by Linnartz (CD, DVD: col. 4 lines 25-40). Therefore it would have been obvious o one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg. It would have been desirable to do so as this would increase the security of digital content delivery.

As for claims 2, 13, and 22, Linnartz teaches the features of the claim that Grynberg doesn't, namely an optical media storage device according to claim 1 wherein said application program is operative to execute improperly if said test hash value is different than the target hash value (col. 9 lines 15-30). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg. It would have been desirable to do so as this would increase the security

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Supplemental Box

of digital content delivery.

As for claim 5, Linnartz teaches the features of the claim that Grynberg fails to teach, namely a media storage device according to claim 1 wherein said algorithm is obscured within said application program (col. 7 lines 20-60, col. 9 lines 15-30). Therefore it would have been obvious o one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg. It would have been desirable to do so as this would increase the security of digital content delivery.

As for claims 6, 17, and 18, Grynberg teaches a media storage device according to claim 1 wherein said anomaly region, said fingerprint region and said executable region reside at separate locations on said substrate (fig. 2).

As for claims 9,10, 18, and 19 Grynberg teaches a media storage device according to claim 1 wherein said anomaly region comprises a plurality of continuous physical defects formed on said substrate and wherein said anomaly region comprises a plurality of anomalies formed on said substrate which have characteristics falling outside of normal operating specifications for the selected format (col. 2 lines 25-35)

As for claim 11, Linnartz teaches the features of the claim that Grynberg fails to teach, namely a media storage device according to claim 1 wherein the informational pits and lands associated with said fingerprint region are contiguous (col. 4 lines 25-67). Therefore it would have been obvious o one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg. It would have been desirable to do so as this would increase the rapidity at which such information is retrieved by the system.

2. Claims 3, 4, 14, 15, 20, 22, and 23 lack an inventive step under PCT Article 33(3) as being obvious over Grynberg and Linnartz in view of official Notice.

As for claims 3, 14, 22 and 23, the combination of Grynberg and Linnartz do not teach an optical media storage device according to claim 1 wherein said hashing algorithm is MD-5. However Official Notice may be taken that the use of such a hashing algorithm is old and well known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg and Linnartz. It would have been desirable to do so as this algorithm is very widely used and hence would increase the utility of the system employing it.

As for claims 4 and 15, the combination of Grynberg and Linnartz do not teach an optical media storage device according to claim 3 wherein said target hash value is a 128-bit key. However Official Notice may be taken that the use of such a hashing key is old and well known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg and Linnartz. It would have been desirable to do so as this would increase the security of the system employing it.

As for claim 20, the claim is directed towards a method for manufacturing the optical disk taught by the combination of Grynberg and Linnartz in claim 1. The combination used in the rejection of claim 1 teaches all of the features of the article of claim 20 except the use of a mastering tape in the production of the article of manufacture. However Official Notice may be taken that the use of a master tape in the production of optical disks is a step that is old and well known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Grynberg and Linnartz. It would have been desirable to do so as this would increase the speed at which new disks could be manufactured.